

Pit Level Monitoring Reduces Water Usage and Proves Cost Effective

Challenges

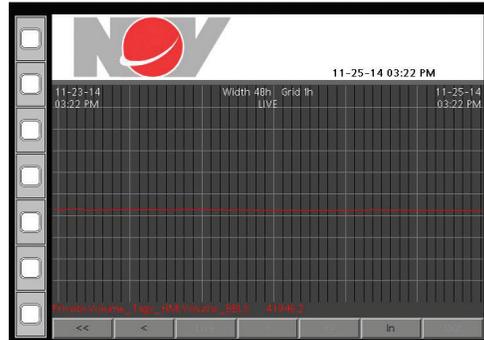
- Operator needed a way to monitor water levels inside of their frac pit and manage the amount of water being used
- Account for region's high evaporation rate

Well Information

- Location: New Mexico, US

Solution & Results

- Implement a water management monitoring system capable of gathering and transmitting data for frac pit water levels in real time
- Reduced nonproductive time
- Increased overall safety by reducing traffic related to water transport



An operator in Eastern New Mexico was having problems managing their water usage for drilling and fracking activities due to the difficulty of monitoring water levels in frac pits.

The frac pit was located in a remote location, and hiring a full-time crew simply to monitor the water levels inside the pits is expensive. In addition, the high evaporation rates in the region made it difficult for the operator to accurately measure the water level, as it would reduce the water level by the time activity commenced.

NOV FluidControl's solution was to design, build and install an innovative remote monitoring and logging system. By placing a sensor capable of gathering and transmitting data from inside the pit, the operator was able to monitor water levels and volume on a real time basis.

With the system in place, the operator was capable of monitoring it remotely from any mobile device or laptop with internet access. Each user was provided with a username and password for access. In addition, the system's historian allows the operator to monitor how much of the water loss is due to evaporation, which helps them design the proper frac pit dimensions to reduce the effect of evaporation.

With the capability to monitor water levels in real time, operating costs were reduced, while safety was increased as a direct result of a reduction in water transport traffic.

To learn more about NOV FluidControl's solutions for water treatment and transfer, contact a representative.

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